



Enhanced Work Planning  
Implementation Training

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INSTRUCTOR'S GUIDE

## ***WELCOME...***

**T**his is the Instructor's Guide for the Enhanced Work Planning Implementation training course. You will find this guide valuable in your preparation and delivery of the training.

Before you do anything else, read through this entire guide to become very familiar with it. After reading the guide, you will then be ready to go through the steps outlined below to successfully implement the course.

## ***GOAL...***

**T**he goal of this training is to:

Train an EWP Core Team on the elements of EWP and how to implement them to identify, evaluate, and improve the work requesting/planning/execution process. The EWP Core Team will then understand that EWP is NOT the process that plans the actual work, but IS the process that evaluates and improves the program by which we manage the planning and execution of work.

## ***OBJECTIVES...***

At the completion of this training, EWP Core Team members will be able to:

1. **Discuss** the history of the EWP program and how EWP relates to the mission of their facility.
2. **Discuss** why they were selected to be a part of an EWP Core Team and how to effectively function as a team member.
3. **Discuss** the roles and responsibilities of an EWP Core Team.
4. **Demonstrate** how the five elements of EWP relate to implementing EWP, using a case study exercise that requires enhancement of the described work process.
5. **Describe** common barriers to efficient and effective implementation of EWP.
6. **Discuss** EWP products, practices, and tools developed at other facilities or sites.
7. **Discuss** the effective use of performance indicators.
8. **Describe** their role as a mentor/coach in implementing and refining EWP at their site.
9. **Discuss** how to determine when EWP elements are institutionalized at their facility.

## ***MATERIALS...***

**T**he following materials will be needed to implement this training:

- Instructor's Guide
- Handouts
- Overhead projector
- Overheads
- Puzzle

- Flip chart paper and pens
- Nails and board
- Posters.

## ***PREREQUISITES...***

The following should be completed before attending this course.


- Each person should have already attended course 2 EWP Fundamentals
- The core team should have an established goal.


## ***FACILITATE THE ACTIVITY...***


Before you begin the training session, familiarize yourself again with the Instructor Guide. Do not read verbatim from it. Use your own words while still covering the content.


This training will take about eight hours to complete.


The Instructor's Guide contains icons to visually cue you to what is happening next. Below is the legend to these symbols:


Show an Overhead:  The "X" will be the number of the slide you are to show.


Handout:  The "X" will be the number of the handout you are to distribute.


Activity:  A brief activity that illustrates a point.


Flip Chart:  Write or display points on flip chart paper.

Question:  Ask a question of the participants.

Instructor Note:  An important note to you, the instructor.

Important Point:  A key point or statement that the participants need to remember.

Poster:  Display or refer to a poster.

Site Specific Information:  Relate information from the site where the training is being presented to the topic at hand.

The lesson plan is divided into two columns. The column on the left, **INSTRUCTOR / PARTICIPANT ACTIVITY**, will contain the above icons and other explanations that will direct you or the participants to some action.

Content that you will actually say will be in italics under “**DISCUSSION POINTS.**” Further explanations and details will also be under this column.

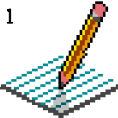
**INSTRUCTOR / PARTICIPANT  
ACTIVITY****DISCUSSION POINTS****MODULE I. INTRODUCTION (15 minutes)**

Cover slide

**Welcome** everyone to the Enhanced Work Planning Implementation training course.

Instructor  
introductions

**Introduce** yourself (and the co-instructor(s), if applicable), write name(s) on flipchart or whiteboard and provide any relevant personal information to help establish credibility. Other instructors will introduce themselves as they begin teaching. (TURN OFF THE OVERHEAD)



Distribute roster.

Inform class of  
housekeeping items.Important **housekeeping** items are:

Location of restrooms, coffee, vending machines, etc.

Break times

Pertinent emergency procedures for that classroom

Lunch hour



Parking Lot

*“**Questions** will be entertained any time during the course. Any questions not immediately answerable will be recorded in a ‘parking lot’ so they are not forgotten and can be answered*

**INSTRUCTOR / PARTICIPANT  
ACTIVITY****DISCUSSION POINTS**

Class

introductions

*later.”*

Each **class participant** will **introduce** him-or herself including job title or position. Briefly reinforce each participants reason for attendance as a function of the enhanced work process (i.e., a Crafts person is included to satisfy Worker Involvement and Organizationally diverse teams).

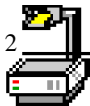


Icebreaker-

puzzle pieces

**Distribute puzzle** pieces to each participant informing them that they can only relinquish them by recognized participation. It is anticipated that there will be more pieces that participants so the instructor will have to determine exceptional class participation or insight and award extra pieces. The team leader(s) is/are responsible for assembling the puzzle. All the puzzle pieces form the EWP logo.

*“Just as your active participation is vital to the success of your team, it is also paramount to the benefits derived from this course.”*

**INSTRUCTOR / PARTICIPANT  
ACTIVITY****DISCUSSION POINTS****MODULE II. Course Goal and Objectives (15  
minutes)**

Goal 1

Overall course **goal** overhead

*“This is the overall goal for this course.”*

Read the goal aloud. (Point to the definition of EWP on the poster and make a tie with the goal and make sure everybody understands the definition of EWP.)



Goal 2

*“The EWP core team will then understand that...”* switch to the next overhead and finish reading the overall goal.



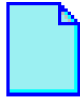
Objectives

*“In order to reach this goal, we have developed these objectives to keep us focused.”* Read each objective.



Point out the **elements** poster and explain how the elements promote enhancement and are tools to promote safer, faster, better and cheaper work. Briefly explain each element, and make sure everybody understands the elements. (Each student should know about the elements from attending course 2, this is just brief reinforcement.)



**INSTRUCTOR / PARTICIPANT  
ACTIVITY****DISCUSSION POINTS**

Point out the course **overview** poster and as each area is discussed, you will check the box.

Discuss EWP Training Program. Inform the participants that the intended audiences for courses 1, 2, and 3 and their goals.

**Remind** the class that they should have completed course 2 before attending this course.



Remember to actually check each area off when complete.



Turn some time over to the **team leader(s)** and ask them to describe the team goal and to have their team members describe their perceived role toward achieving that goal. Help the team leader as needed.

**INSTRUCTOR / PARTICIPANT  
ACTIVITY****DISCUSSION POINTS****MODULE III. MOTIVATION (15 minutes)**

You must “**speak from the heart**” during this motivation section. Refrain from using overheads or consulting the lesson plan during this discussion, to lend credence to what you are saying..

**A. Brief History**

Remember to direct focus on the process not the person (i.e. planner)

*“Prior to Enhanced Work Planning (EWP), the process used to plan work was generally performed by a planner with little or no interface with support organizations, including safety or the work force other than to seek approval. This process created incomplete, confusing, inaccurate, and inconsistent work packages or work instructions. This was a direct result of a lack of understanding of what was to be done, when, and by whom. This created delays and stoppages in work execution and led to a lack of faith by the craft or wage in the safety analysis program or work control process.”*

**B. Shrinking Budgets**

**INSTRUCTOR / PARTICIPANT  
ACTIVITY****DISCUSSION POINTS**

*“We are all experiencing a period of shrinking budgets and shifting missions and priorities and can ill afford any inefficiencies. For 40+ years, we had a different mission in support of the ‘cold war’ and we did it extremely well, in the time of cold war budgets we all prospered but now our mission has changed.”*

*“We must now consider how what we do or do not do affects our environment. Not that anyone intentionally harmed the environment in the past, but we understand our environment and its delicate balances much better now. We also have a better understanding of chemical safety and the long term effects of exposure to certain chemicals.”*

**C. Safety and Productivity**

*“We must be able to adapt to new ways of getting the job done safer, quicker, and cheaper.”*

**D. Competition From Private Industries**

*“Experience, past productivity, and safety excellence help separate us from privatization, but the gap is narrowing.”*

**E. Grass Roots Initiative**

**INSTRUCTOR / PARTICIPANT  
ACTIVITY****DISCUSSION POINTS**

*“EWP started out as a DOE initiative, which was championed and taken over by the sites. It continues to exist and grow today because it is a safer, better, and more cost efficient way to do business.”*

**F. Why Selected - Program Only As Good As Its  
Implementation**

*“All of you in this class today were selected for your position in the formal work planning process as knowledgeable, required members of the EWP Core Team. Your participation on this team allows you to share your "corporate knowledge," build assurance into the program, and help propagate a consistent work process from facility to facility. However, you should not harbor a ‘show me’ attitude but should portray a ‘watch me’ attitude toward your team goals.”*



Further stress that they have been given a very unique **opportunity** to actually change things for the better without being “ordered” to do it. Make sure they understand that their accomplishments as a core team will improve safety, increase productivity, and positively contribute to the future of their facility and site

**G. Why EWP?**

**INSTRUCTOR / PARTICIPANT  
ACTIVITY****DISCUSSION POINTS**

*“So, how have we managed to do without EWP for 40+ years and still enjoy the safety record that we have? The answer is PEOPLE! Conscientious, knowledgeable people who built the facility and/or have worked there all their lives and know what has to be done to be safe. The “old time” planners know who to consult, the “seasoned” supervisors know what has to be reviewed, and the workers that built the facility know how to safely accomplish the required tasks independent of the procedure.”*

*“Unfortunately, the ‘all knowing’ workforce is retired or nearing retirement, and their knowledge is leaving with them. It’s not that the ‘new replacements’ don’t want to do well, they don’t have the corporate knowledge of their predecessors, and therefore they have to rely on procedures to keep the facility safe.”*

*“Additionally, EWP assists the ‘next generation’ by providing the medium to bring all the craft and support organizations into the work planning process.”*



Why **EWP** for **your site**? Add a few site specific remarks.



*“Are there any questions about what has been covered so far?”*

**INSTRUCTOR / PARTICIPANT  
ACTIVITY****DISCUSSION POINTS****MODULE IV. Roles and Responsibilities of the  
Core Team in Implementing EWP (2 hours)**

Inform the class that the next session will deal with applying EWP to an actual situation. Furthermore, you will lead them through the implementation process found in their student workbooks.



Briefly discuss the general implementation process using the poster on the wall.

***“Determine “AS-IS”***

*Multi-functional team members conduct interactive discussions of work processes to gain understanding of how work is currently performed. Scope of review addresses how work is identified, planned, approved, controlled, and executed.*

*Remember, the “AS-IS” is really “ACTUALLY-IS” not what you think it is.*

*AS-IS review may be accomplished by:*

- *a team meeting of representatives*
- *developing a checklist and interviewing personnel*
- *reviewing assessment reports*

**INSTRUCTOR / PARTICIPANT  
ACTIVITY****DISCUSSION POINTS**

- *reviewing employee suggestions*

***Determine Strengths and Weaknesses***

*Critically evaluate information on how work is accomplished, identifying effective practices, barriers to efficient completion, organizational interfaces, and understanding of procedures and practices that impact the completion of work.*

***Determine Whether Process Enhancements are Warranted***

*Based on the team understanding of the strengths and weaknesses and the potential for meaningful, worthwhile improvements, the team decides if the existing process should be enhanced. The team needs to consider the potential benefits of changes and the costs to implement.*

***Set Goals and Develop Performance Indicators***

*The team establishes goals for the EWP program to address opportunities for improvements in efficiency, productivity, safety, and environmental compliance. Existing or new performance indicators are used to determine the baseline conditions and to measure the impact of the implemented enhancements.*

***Benchmark Current Conditions***

*The EWP team compares current practices with similar practices at other complex organizations in order to note how*

**INSTRUCTOR / PARTICIPANT  
ACTIVITY****DISCUSSION POINTS**

*others have dealt with similar issues. Successful tools and processes developed through EWP at other facilities are reviewed for possible application. Consult the EWP Cross Pollination Document and contact personnel at other sites to discuss experience.*

***Determine “SHOULD-BE” Process***

*The EWP team determines what characteristics and requirements the enhanced process should possess incorporating EWP principles including a graded approach based on risk and complexity of the task and the skill/training level of the workers.*

***Develop Implementation Plan***

*The EWP team develops an implementation plan and schedule including required resources and implementation costs for management review and approval. The plan identifies the responsible lead person and other resources for completion of the actions defined in the plan. Items such as procedure changes, development of tools, and training on changes need to be considered.*

***Implementation Enhancements***

*Using the approved plan the changes to the work process are implemented in the field including the required training of personnel. Depending on the complexity of changes, it may be*



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ACTIVITY****DISCUSSION POINTS**

*appropriate to pilot changes in one area to validate the process before full scale implementation. The same team that developed the changes should assist with the implementation.*

***Evaluate Effect of Process Changes***

*The EWP team participants in evaluating the process changes using information from performance indicators. By comparing results from the new process to the previous baseline condition, the effect of the changes are evaluated and further process improvements can be considered.*

***Closure***

*The EWP process is considered completed when the enhanced process implementation is finished and the line management accepts full responsibility for the process. The on-going performance continues to be monitored by the performance indicators and management uses self assessment for identifying need for future enhancements.*

Inform the class that for the next hour or so you will **lead** them through the **implementation** process in preparation for the case study which they will accomplish on their own. Your role in the “guided implementation” will be as “team leader”.

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ACTIVITY

## DISCUSSION POINTS

**IV. Roles and Responsibilities**

## A. Baseline Current Work Control Practices (AS IS)

Refer to sample narrative in student packet (also found in the Instructor Reference section) and allow class about 10 minutes to read.



Flow diagram

Show overhead of AS-IS work planing flow while the class is reading.

**Read** narrative and explain flow diagram overhead to make sure everybody understands the AS-IS.



Given the sample situation, ask each team member why they think they are on the team. (Relate to elements as much as possible.)



*“Although we have provided this as a sample situation, do you feel this problem could actually exist?”*



Although the “AS-IS” has been provided in the handout, remind the class that they will have to **determine** their own “AS-IS” for their assigned process. Help them by **providing questions** that they will need to think about when they determine their own as is: Who starts the process? Do you use formal work requests or

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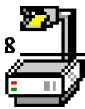
the good ol' boy method? Do your crafts people do favors for the work force and no procedures get used? Do you find yourself allowing no procedures because the workers in question built the facility 40 years ago and don't need a work request to tell them what to fix? Are any work requests or actual work generated from a deficiency log? What happens if there is a mistake or problem discovered during the review process?

**Stress** that AS-IS is actually "REALLY-IS" in other words, not how you think it is but how it actually works.

Ask class for possible ways to determine AS-IS.



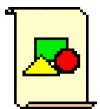
Write down class responses.



AS-IS methods

Discuss the methods to determine AS-IS

B. Strengths and Weaknesses of the Current Work Control Process.



Write down class responses.

The **class will now provide** strengths and weaknesses of the "AS-IS" process. Provide one or two responses from the Instructor Aids package.

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## DISCUSSION POINTS

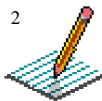
Encourage brainstorming by teams; try to encourage **team leaders** to lead discussion. Be prepared to provide thought provoking terms such as “line vs. staff, number of signatures, degree of worker involvement, who generates permits?”

After the discussion starts to die off, walk over to the five elements chart and have the class evaluate processes in terms of the **five elements of EWP** if they haven’t already done so.



Remember, just because a process has not been enhanced by EWP does not mean it doesn’t have strengths. Allow the class to reevaluate their lists if needed.

2



Show strengths vs. weaknesses overhead and distribute handout.



stren. V weak.

While showing overhead, stress that these are only examples and what the class came up with is just as good.

C. Identify Issues and Functional Areas that May Warrant Enhancement.

*“As we begin to look at the areas that may need **enhancement**, I want you to remember two things. Don’t fix it if it isn’t broke. And, if it isn’t broke, break it!”*



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**DISCUSSION POINTS**

Don't immediately explain the two contradictory terms, let the class mull them over and hopefully begin their own discussion or challenge you, the instructor. If the class challenges you, turn the question around and use the team leaders to lead the answer session.

The first statement means that if it works and fits reasonably well with the elements of EWP, leave it alone. The second statement means to not be satisfied with "this is the way we always do it." Keep a questioning mind. Think "Why EWP." Ask yourself, "What's wrong with this picture?"

*"How do you determine when EWP is warranted?"*

The answer to the above question is: Depends on **safety**, **efficiency**, and **cost**. **Remember, "enhance" does not mean additional, it could also mean less.**



Enhancement  
Conditions

D. Establish **Performance Indicator AS-IS** condition

*"Once you have decided what you want to enhance, you must establish where the process is, so you can generate Performance Indicators to tell you if you are successful. As an example, if you decide to change the review process to the team concept, find out how long it takes a package to be reviewed and*

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ACTIVITY****DISCUSSION POINTS**

*approved now and after enhancement.”*

- E. **Review and Evaluate** Work Control Processes from Other Sites and Facilities.

Explain how to  
Benchmark other  
processes

*“What you will be doing is looking at similar processes at other sites, i.e., maintenance, waste management, operations, training, etc., and look at how your weaknesses can be improved on by what other sites have done. Each member on the team can be used to benchmark either formally or informally.”*

Show the class how to use the **Cross Pollination Summary document**. Actually pick out one or two tools/products that can be used for their specific needs.



*“There are other avenues available to exchange information about the EWP program, such as conference calls, work shops, and visits to other sites (use site DOE EWP rep for setting up tour).”*

- F. Develop New Work Flow Diagram, “SHOULD BE”

Stress to the class the importance of incorporating the five elements of EWP when developing the “SHOULD BE”

*“Think of all the organizations involved in your process and*

**INSTRUCTOR / PARTICIPANT  
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*include them in your “SHOULD BE.” Remember to use a **Graded Approach** when involving all of your support organizations. Usually, only one craft is used on the teams to represent all crafts, but in the work process you might want every craft represented, depending on the complexity of the process.”*



Be sure to ask **probing questions** while each group is working on their new process to ensure they know what they are doing and are committed to improve things. Ask such questions as, “Are you sure you can get all these people in one room with the Medical folks? Are you sure you want QA here? Why do you want medical? Are the craft foreman going to let their workers attend this meeting instead of work?” And ask other questions as you see fit.

Use provided “SHOULD-BE from the Instructor Reference section package to generate discussion as needed.



Discuss the sample “SHOULD-BE” overhead and distribute should-be handout.

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## DISCUSSION POINTS



Should-be

G. Develop **Implementation Plan**

The Implementation Plan depends upon the complexity of the identified enhancements. It could require proceduralizing the changes, developing timetables, and/or retraining the workforce.

Ask **questions** concerning management commitment, requirements, resources, schedule, costs, approvals, cross-organizational considerations, performance indicators, and projected benefits while the class is developing a simple implementation plan.



*“Here is a **sample implementation plan** taken from the EWP Implementation Kit.”*



Describe and discuss the implementation plan in detail. Stress the importance of getting it right the first time, receiving line management buy-in up front, and balance timeline vs. resources.



“The Implementation Plan, for the example, may be no more than train a planner and evaluate the results.

Sample implementation  
plan

Discuss actual facility/site implementation plan if applicable

## H. Implement



**INSTRUCTOR / PARTICIPANT  
ACTIVITY****DISCUSSION POINTS**

Follow the implementation plan, which should answer all questions concerning timing, resources, procedures, etc.

*“Who implements and how?”*

This should be defined and approved in the plan.



I. **Evaluate** the Effect of Changes Due To Enhancements.

*“Here you will be using performance indicators. You have to know where you are or were before you can find out if you are where you want to be. The indicators must be measurable and meaningful. Remember the five elements when developing performance indicators. A detailed discussion on performance indicators will occur later.”*

J. **Closure**

*“What does EWP become? Self-assessment is the logical end to EWP. EWP itself is “self-canceling” by its own nature of being a process to enhance a process. Once the process is enhanced, EWP in that form ceases to exist.”*



**Recap** the process by going to the implementation process wall chart.

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ACTIVITY**

**DISCUSSION POINTS**

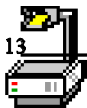


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## DISCUSSION POINTS

**MODULE V. Team Development and Exercise (60 minutes)****A. Team Development**

*“I want to take a little time and discuss teams and how they function. Casey Stengel, a famous professional baseball manager from long ago, once said, ‘You can get good players, gettin’ them to play together, that’s the hard part.’ Teams are not fully effective when they first come together.”*



4 stages

*“These are the **four stages** of team formation. Forming, Storming, Norming, and Performing.”*

See the Instructor Reference section for detailed descriptions of the four stages.



Effectiveness factors

*“These are the **Team effectiveness factors**.”*

See the Instructor Reference section for detailed descriptions of the effectiveness factors.

*“Each of these effectiveness factors support stages of team development.”*

**INSTRUCTOR / PARTICIPANT  
ACTIVITY****DISCUSSION POINTS**

See the Instructor Reference section to provide a performance indicator example and then help the team develop a performance indicator they can apply to themselves to evaluate their progress as a team.

Hold up the Team  
Training Toolbox

*“This is the Team Training Toolbox. Each Team Leader will receive one of these. This toolbox contains a definition, possible solutions, and brief activities for each team effectiveness factor. This can be used when the team is failing or having problems in one of these areas.”*

If time permits, select a simple exercise and showcase a chapter for the class

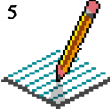


Conduct Nail exercise

Description is in Instructor Reference section. After conducting the exercise, point out that during the exercise they went through team stages and that if they copy another teams solution, it is part of what EWP is based-on. Use what works.

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## DISCUSSION POINTS

**MODULE VI. Case Study (1 hour and 30 minutes)**

**Introduce** the case study. Use narrative found in the Instructor Reference section



Facilitate as needed to keep this case study moving.



AS-IS work planning

**A. Set Conditions**

Keep the discussion going with teams. Once they get to “SHOULD-BE”, make sure they cover who is organizationally responsible for every “box” and what the responsibilities are. They should also present this information to the class.



Strengths & Weaknesses

Call attention to the flow chart and description for case study in the Student Handouts.



**B. Team Leaders**



*“Team Leaders, you will now lead your team through this case study of Facility B in the same manner that we all went through the last case study. This will take about 45 minutes to one hour.”*

**INSTRUCTOR / PARTICIPANT  
ACTIVITY****DISCUSSION POINTS**

The instructor is to evaluate team skills using checklist from the Instructor Reference section.

After the time is up, ask each Team Leader to present and defend the enhancements of the work process to the class.

**C. Review**

Review each presentation briefly with the class. While doing so, address how the solutions addressed the five elements of EWP.



Briefly discuss the “SHOULD-BE” with the class.

**INSTRUCTOR / PARTICIPANT  
ACTIVITY****DISCUSSION POINTS****MODULE VII. Application of Problem Solving**  
**Skills and Effective Team Participation (15 minutes)****A. Impressions of the Team's Effectiveness**

*“How do you think you functioned as a team throughout the case study? Do you think you were effective? Where could you have done better?”*

Discuss this for about 10 minutes. Let the class bring up areas. Hint at areas that you observed that were good and bad if necessary to help the discussion.

Accept answers from the group



These other questions can be used as needed for the discussion. “Which stage of team building do you think you got to? What was your team goal? Did your leader take charge? Did everybody on the team participate?”

**B. Debrief with the Checklist**

Use the checklist to go over with each team how you felt they did. Be prepared for conflict and bruised egos, but stand by the

checklist and share with the class that this is only your

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impression of their skill as a team.



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## DISCUSSION POINTS

**MODULE VIII. Discuss Barriers to Efficient and Effective Implementation of EWP (45 minutes)**

List responses on  
flip chart

*“Let’s **list** some of the **barriers** that you may or already have come across at this site to effective implementation of EWP.*

*Examples may include: Line management feels no loyalty and is ‘too busy,’ EWP is looked at as another ‘flavor of the month,’ resistance to change at any cost.”*

Take responses for 5 minutes.



*“How do we overcome these barriers that are listed here? I gave you some common problems. Solutions to those problems may be (1). line management buy-in up front or, (2). showing a proven record of improved safety, efficiency, and productivity with EWP. Others may include a demonstrated relationship with other initiatives and how it provides support to them; bottom-up or top-down implementation, depending on circumstances; The premise that "the worker is not broke, the system is!" What are some ways to overcome the barriers that you have listed and keep in mind the five elements of EWP.”*

Discuss answers for a few minutes.

**INSTRUCTOR / PARTICIPANT  
ACTIVITY****DISCUSSION POINTS**

*“Here are some identified barriers from across the complex, using the five elements of EWP, how could we overcome them?”*



Discuss and compare with answers from the class.

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## DISCUSSION POINTS

**MODULE IX. EWP Products, Practices and Tools****Developed at Other Facilities or Sites (15 minutes)**

*“Ongoing communication and networking are critical to ensure that sites experience the full benefits of EWP applied to all work performed within DOE. Many tools and processes are available which enable sites to achieve work results faster, better, safer, and cheaper. This handout describes many of these tools. We’ll briefly go over this.”*



“The EWP home page makes EWP information available to countless people across the DOE complex. New information will be added regularly. You should check this site out often.”



“The EWP Implementation curriculum is focused on understanding and applying key EWP principles as well as providing an avenue for each site to tailor the curriculum to meet its specific needs. Three courses will be available in August of 1997.”

*“Periodic and regularly scheduled teleconferencing meetings are held to provide a forum for topics of general interest.”*

*“In your student packet under cross pollination summary there is a matrix of tools, products and practices found at other*

**INSTRUCTOR / PARTICIPANT  
ACTIVITY****DISCUSSION POINTS**

*sites.”*

*“The matrix is easy to use, and I’ll grab a few examples here based on our discussion today.”*



Select a few examples based on class-defined problems from earlier discussions; explain how the matrix works and how to obtain information from other sites.

*“The EWP Steering Committee sponsor periodic EWP counterpart meetings and workshops for more intensive interaction among EWP site representatives.”*

*“Assistance for EWP specialists is provided to ensure that sites are taking full advantage of the various aspects of EWP.”*

*“It is important to keep the information flow going both ways. As you come up with new products, tools, or processes, please share them with the rest of the complex.”*



Skill of the craft. *“This is meant to indicate graphically that an idea originated in Idaho, was sent for use and improved at Fernald, and resent back to Idaho along with initially sending to Mound. This is an excellent example of the sharing of ideas, products, and tools throughout the complex made possible through EWP. The important thing is that all the sites are*

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*communicating and no single site is left to "reinvent the wheel"  
if it exists somewhere in the complex."*



Discuss site specific “tools” if applicable

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ACTIVITY****DISCUSSION POINTS****MODULE X. Performance Indicators (30 minutes)**

*“The objectives of this next module are to explain what Performance Indicators are, why we need them, how to establish them, and how they can help us integrate DOE programs and Initiatives in a national level across the complex.”*

**A. Review definition of Performance Indicators**

P.I. definition

*“Although they are referred to as indicators, measures, or metrics; Performance Indicators, as defined and used in the Enhanced Work Planning process, are the ‘qualitative and quantitative basis by which objectives are established and performance towards reaching a goal is assessed and gaged.’”*

*“Regardless of what they are called, it is what they do for us that is important. Performance Indicators help us control the process. We must have a means to tell if we are safer, faster, better, cheaper or as importantly, if we are not.”*

*“Performance Indicators **measure and defend progress** , show*

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What are PI's

*support and integration* into Site and Complex-wide missions, *provide data* to set an improvement course, and ultimately function as a **tool to change behavior**. Taken alone, Performance Indicators are meaningless, they must be carefully tied to an attainable goal and expressed in units of measure that are understandable by everyone associated with the process."

B. Why are they needed

"Why do we need Performance Indicators?"



Accept answers  
from class

"If you are not keeping score, you are just practicing."



Why P.Is?

- "1. **Management Assessment** -Is EWP meeting its objectives and goals? Is there clear evidence of the application of the elements of EWP? Is it paying for itself? (Fernald experienced an 11 to 1 payback on resources expended on EWP)
2. **Defensible Measurement of Success and Accomplishment**- "Nothing succeeds like Success" Meaningful PIs can prove that the EWP program is accomplishing its goals.
3. **Self-Assessment** -How well are our "enhanced" processes meeting their goals? Are they truly safer, better, faster, and/or cheaper?"
- "4. **Continuous Improvement** -What are the weaknesses,

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*trends, efficiencies, and opportunities for improvement?*

5. **Show Integration into other Site/Complex goals and/or initiatives-** *EWP PIs should support other PIs used to measure the Site's performance such as an ISMS.*

*Each ISMS should include a process to identify performance measures including safety performance measures for the work. These performance measures should 1) Provide information that is truly a direct indicator of how safely the work is being performed 2) be clearly linked to the performance objectives and 3) be performance based.*

*An example might be an EWP Indicator measuring "worker involvement in work planning" should be shown as linked to a more established site indicator such as 'maintenance cost per square foot.'*

See the Instructor Reference section for classic EWP Performance Indicators and specific examples to share with the class

- C. Who uses PIs?



Who uses PIs

**“-Site Management-** *determine status of "global" processes such as implementation of VPP, D&D 25% of Site by 1999, reduce loss-of-time accidents, reduce equipment downtime by*



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*25%, eliminate work stoppages due to work package errors or omissions, etc. Any of you who have been in any of these Managers offices can attest to the fact that his/her walls contain PI charts indicating progress towards corporate goals.*

***-Line Management** determine status of facility or work group specific processes such as: reduce "dead time" for crafts by 10%, reduce D&D costs for facility A by 15%, reduce number of unforeseen field changes to work packages by 50%, increase "chargeable" time for workforce by 25%/reduce overhead charges by 25%, etc. Here again we will find PIs being tracked on charts in the foreman's office only more facility specific.*



***-Crafts** determine status of worker specific processes such as: manage reportable workplace accidents to zero, reduce work stoppages by 75%, reduce number of crafts maintaining asbestos worker qualification by 10%, reduce average time to effect needed work package changes by 25%, etc. The PIs associated with the Crafts typical show up site wide with large signs or entire bulletin boards indicating progress towards goals such as reduced workplace accidents.*

***-Support Organizations-** determine degree of involvement and/or support of the actual work by organizations such as Safety&Health, Medical, QA, and training. Here we could see: # packages reviewed by Support Organizations, # unforeseen*

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*work stoppages, # work packages requiring training involvement, reduce average size of work packages by 35%, reduce amount of annual retraining required by 25%, etc.*

*The bottom line is **EVERYBODY** uses PIs or should use or be aware of how their job affects PIs.*

***However**, many of these examples can be a double edged sword. As an example, we may have to make work packages longer if we discover we are not applying the right amount of rigor for the hazards involved. To prevent these type situations, PIs **MUST** be tied to attainable goals!"*

Ask if there is anybody in class who thinks their particular "job" has no effect on any PIs. Be ready to relate their job to numerous PIs using the examples provided above.



D. How do we establish and use PIs?

- “1. Establish **baseline** -You have to know where you are before you can begin comparisons. Caution: Be sure you obtain an actual baseline, not what it is supposed to be.
2. Identify the **purpose** for the measurement-Why is this data being taken, do we really need it?



How to establish

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3. *Justify and set **goals**-What are we trying to prove/disprove? Why are we concerned with this goal?*
4. ***Scope** of Indicator-What are we going to gather data on? How much data?*
5. ***Collect** data-must be defensible, with the proper rigor applied through use of a graded approach to its importance.*
6. ***Calculate** data-reduce raw data to useable, defensible measurements.*
7. ***Analyze** data-measure actual results.*
8. ***Compare** actual results(measurements) to goal.*

*Based on your results, you are ready to continue, alter course slightly, or make major course change.”*

- E. Is there a place for PIs that measure the subjective elements of EWP?

*“First of all, subjective PIs do not replace other PIs. Subjective Performance Indicators allow managers and the workforce to measure and understand attitudes and subjective conditions that could be used to provide leading information of EWP progress such as:*

- *Commitment to EWP implementation*
- *Management sponsorship of EWP implementation*
- *EWP communication of effectiveness*

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- *Characteristics of a successful EWP program*
- *Customer satisfaction with EWP*
- *Cooperation between workgroups*

*These elements are often not included in information systems because of the difficulty of measurement. One of the tools developed at PNNL for use in the EWP process has made this type of measurement possible. This facilitated process helps build and measure subjective PIs, identify possible applications for this tool in the applicant's organization, and provide an outline of the steps in the process. Upon completion of the workshop, personnel will have developed a subjective indicator of interest to the group and will be able to apply subjective techniques in their organization for use in the self-assessment process, obtaining consensus, and other applications. Contact Headquarters (EH-53) for more information on the "fuzzy" performance indicator workshop.*



*Some examples of subjective performance indicators include: quality, innovation, communications, morale, and efficiency.*

**F. Coordinated Performance Indicators**

- “1. *How do the Performance Indicators set to measure the EWP process for your particular project or facility coordinate and integrate with complex-wide and*

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*program PIs?*

2. *How do they coordinate and integrate with other PIs set at your site? the DOE complex?"*



Hierarchy

Overhead explanation-DOE-HQ goal is to D&D 10% of complex by year 2000, Facility X's goal is to D&D Bldg. Y by year 2000. EWP program Goals become:

- 1.) *Reduce D&D Work Request time*
- 2.) *Reduce Maintenance Work Request Time*
- 3.) *Reduce time to route D&D Work Request. ...OR...*

DOE-HQ goal of 80% of Workforce involved with EWP/ISM by end of 1999.

Facility Y's goal is to achieve VPP STAR status by the end of 1999. EWP program goals become:

- 1.) 50% of workforce involved in EWP by 1998
- 2.) 100% of Workforce involved with EWP by 1999.

- “3. *A DOE-HQ Initiative has been launched to help EWP teams take advantage of Performance Indicators as a means to advance EWP goals. The EWP program has taken the initiative to help coordinate, consolidate, and refine site Performance Indicator programs. Once coordinated, progress towards complex-wide goals as defined by ISMS, VPP, etc. becomes easier to measure.*

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*The needed data is already being collected at each site in various forms. Coordination of each sites data towards a national level will assist in focusing the efforts of the entire complex in the same direction.”*

**F. Conclusion**

*“Have we met our objectives?*

*We discussed the what, why and how of performance indicators.*

*We also discussed how they Support/Integrate global goals.*

*In conclusion, we have seen that we measure Performance Indicators for the following reasons:*

*-Measure and defend progress*

*-Show support and integration into site and complex-wide missions*

*-Provide data to set an improvement course*

*-Ultimately function as a tool to change behavior.”*

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ACTIVITY****DISCUSSION POINTS****MODULE XI. Mentoring/Coaching (5 minutes)**

*“As members of the core team, you are never really out of the picture. You will always be an SME. Mentoring and coaching is the avenue by which EWP becomes continuous improvement, thereby maintaining the new process.”*

*“As team members you will continue to assist in implementation and refinement.”*

*“You may be advocates of change, or SMEs to explain Internet access to information, or assist implementation into new areas/facilities, or as a team member you may become new team leader. These are just a few of several ways you may continually be involved.”*

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Closure

*“Approval = Buy-in. You will know when EWP is in place and you are ready for closure when*

- 1. Line management has fully accepted ownership.*
- 2. Elements of EWP are institutionalized*
- 3. Enhanced process and products are implemented*
- 4. Continuous improvement process is in place*
- 5. The EWP process is validated.”*



*“Team Leaders, I want you to discuss this question with your team and report an answer to the rest of the groups. Who determines when EWP is implemented?”*

Have each group discuss for a few minutes then have each group report.



Discuss the site definition of “closure”



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**MODULE XIII. Review (5 minutes)**

*“Here are the course objectives that we addressed at the first of the course.”*



Go over the objectives and point out on the course overview poster where in the course that objective was covered.



*“Now, where do you go from here? What is your next step?”*

Have Team Leaders discuss for a few minutes.

*“You are now at the beginning. You have been empowered to help make things better. But now is the time to get started and ‘think outside the box.’ And remember the nail exercise and how many of you thought ‘It can’t be done!’”*



Conduct half of  
eight exercise

Description is in the Instructor Resource section. This is an example of thinking outside the box.

*“Half of eight is four, or it could be three or zero if you ‘break tradition’ and don’t accept anything as the ‘norm.’”*

*“Thank you for participating today. Please fill out a course evaluation form before you leave.”*